## **MATERIALS LICENSE**

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

In accordance with letters dated November 25, 2014,
3. License No. 13-01535-01 is amended in its entirety to read as follows:
4. Expiration Date: June 30, 2015
5. Docket No. 030-01594 Reference No.
and/or physical form  8. Maximum amount that licensee may possess at any one time under this license
A. As needed
B. As needed
C. 1 curie
ed sources (North D. 1 curie rican Scientific, Inc., el MED 3631; image, Inc., hyseed Model LS-1; Model STM1251; Industries, Model; Implant Sciences ., I-Plant, Model 3500; id, LLC, Model IAI-a; and Mills harmaceuticals, Inc., els SL-125 and SH-
ed sources (North E. 1 curie rican Scientific, Inc., el MED 3633; Best cal International Inc., el 2335; and agenics Corp. aseed, Model 200)

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	IVIA I ERIALO LICENSE				Docket or Reference No. 030-01594				
					Amendme	nt No. 7	74		_
F.	Cesium-131 permi CFR 35.400	tted by 10	F.	Sealed sources Medical Inc. Mo	` •		1 curie		
G.	Any byproduct ma permitted by 10 CI		G.	Sealed sources American Scien Models MED 36 Du Pont Merck Pharmaceutical NES-8412)	itific, Inc., 301 and	G.		es per source illicuries total	
H.	Any byproduct ma permitted by 10 Cl		Н.	Prepackaged ki	ts	H.	1 millicurie		
1.	Yttrium-90 permitte CFR 35.1000	ed by 10	I.	Sealed sources Nordion, Model TheraSphere)	(MDS	1.	2 curies, not millicuries pe	to exceed 540 er source	0
J.	Yttrium-90 permitte CFR 35.1000	ed by 10	J.	Sealed sources Spheres (AEA Technology QS		J.	2 curies		
	Property Commencer Commenc							YE YE	_

## 9. Authorized use:

- A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.
- B. Any imaging and localization study permitted by 10 CFR 35.200.
- C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300.
- D. through F. Any manual brachytherapy procedure permitted by 10 CFR 35.400.
- G. Diagnostic medical use of sealed sources permitted by 10 CFR 35.500 in compatible devices registered pursuant to 10 CFR 30.32(g).
- H. In vitro studies.
- I. Medical use permitted by 10 CFR 35.1000.
- J. Medical use permitted by 10 CFR 35.1000 in a Sirtex Medical Limited brachytherapy afterloader delivery system.

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		Amendment No. 74	·····	***************************************		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

## **CONDITIONS**

- Licensed material may be used or stored only at the licensee's facilities located at 7950 West Jefferson Boulevard, Fort Wayne, Indiana and 7916 West Jefferson Blvd, Fort Wayne, Indiana.
- 11. The Radiation Safety Officer (RSO) for this license is Randall J. Phillips, M.D.
- 12. Licensed material is only authorized for use by, or under the supervision of:
  - A. Individuals permitted to work as an authorized user in accordance with 10 CFR 35.13 and 35.14.
  - B. The following individuals are authorized users for medical use as indicated:

Authorized User	Material and Use	
Brett A. Hagedorn, M.D.	10 CFR 35.100, 35.200, 35.300, an	d 35.500.
John Rock, M.D.	10 CFR 35.100, 35.200, and 31.11.	
Rik Stephens, M.D	10 CFR 35.100, 35.200, 35.300, 35	.500, and 31.11.
James C. Wehrenberg, M.D	10 CFR 35.100, 35.200, 35.500, an	d 31.11.
James A. Arata, M.D	10 CFR 35.100, 35.200, 35.300, 35	.500, and 31.11.
David B. Janizek, M.D.	10 CFR 35.100, 35.200, 35.300, 35	.500, and 31.11.
Christine Anne Tremper, M.D.	10 CFR 35.100, 35.200, 35.300 (limadministration of sodium iodide I-13 equal to or less than 33 millicuries),	31 in quantities
Randall J. Phillips, M.D.	10 CFR 35.100, 35.200, 35.300, 35 yttrium-90, limited to TheraSpheres 35.1000 and yttrium-90 SIR-sphere Medical Limited brachytherapy after system.	, permitted by s in a Sirtex
John Pasalich, M.D.	10 CFR 35.100, 35.200, 35.300, an	d 35.500.
Stephen R. Phillip, M.D.	10 CFR 35.100, 35.200, 35.300, an	d 35.500.
Marc Thomas, M.D.	10 CFR 35.100, 35.200, 35.300, an	d 35.500.
John L. Bormann, M.D.	10 CFR 35.100, 35.200, 35.300, and	d 35.500.
Michael E. Parker, M.D.	10 CFR 35.100, 35.200, 35.300, and	d 35.500.
Pamela Lee Strange, M.D.	10 CFR 35.100, 35.200, 35.300, and	d 35.500.

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Authori	zed User	Materi	al and Use
Joseph	R. Decamp, M.D.	admin	R 35.100, 35.200, 35.300 (limited to oral istration of sodium iodide I-131 in quantities to or less than 33 millicuries), and 35.500.
Frederi	ck N. Vandeman, M.D.	admin	R 35.100, 35.200, 35.300 (limited to oral istration of sodium iodide-131 in quantities to or less than 33 millicuries), and 35.500.
Andre E	Byard Stovall, M.D.		R 35.100, 35.200, 35.300, 35.500 and and another a spheres, permitted by 00.
Christo	pher Michael Kowalski, M.D.	10 CF	R 35.100, 35.200, and 35.500.
Richard	W. Sibley, M.D.	10 CF	R 35.100, 35.200, 35.300, and 35.500.
Dakshe	esh S. Patel, M.D.	10 CF	R 35.100, 35.200, and 35.500.
Eric V.	Heatwole, M.D.	10 CF	R 35.100, 35.200, and 35.500.
Shilpa l	Kashyap, M.D.	10 CF	R 35.100, 35.200, and 35.500.
Deepch	nand Bajpai, M.D.	10 CF	R 35.300 and 35.400.
Rao V.	P. Mantravadi, M.D.	10 CF	R 35.300 and 35.400.
Stephe	n Beyer, M.D	10 CF	R 35.300.
Shawn	Johnson, M.D	10 CF	R 35.100, 35.200, 35.300.
John C	. Lacunza, M.D	10 CF	R 35.100 and 35.200.
Daniel	Branam, M.D.	oral ac	R 35.100, 35.200 and 35.300 (limited to the imministration of sodium iodide I-131 in ties less than or equal to 33 millicuries).
Jonatho	on Berger, M.D.	10 CF	R 35.100 and 35.200.
Eugene	Shih, M.D.	10 CF	R 35.100 and 35.200.
Peter C	C. Hanley, M.D.	10 CF	R 35.100 and 35.200.
Ravi No	o. Bathina, M.D.	10 CF	R 35.100 and 35.200.
•	G. Aggarwal, M.D.		R 35.100 and 35.200.
	. Mattson, D.O.		R 35.100 and 35.200. R 35.100 and 35.200.
revall	J. Ghatnekar, M.D.	10 00	13 00. 100 and 00.200.

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Authorized User	Material and Use	
Krishnan Ramani, M.D.	10 CFR 35.200.	
Mark A. Meier, M.D.	10 CFR 35.200.	
Venkata Rama Prasad Nalamolu, M.D.	10 CFR 35.200.	
Sabeena Ramrakhiani, M.D.	10 CFR 35.100 and 35.200.	
Thomas S. Chung, M.D.	10 CFR 35.300 and 35.400.	
Jeffery J. Freeman, M.D.	10 CFR 100, 200, and 300 (limited to the oral administration of sodium iodide I-131).	
Ryan Buss, M.D.	10 CFR 35.100, 35.200, 35.300 (limited to the ora administration of sodium iodide I-131).	I
Andrew V. Barger, M.D.	10 CFR 35.100, 35.200, and 35.300 (limited to the oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries).	<b>)</b>
Nathan D. Comsia, M.D.	10 CFR 35.400.	
Richard B. Collins, D.O.	10 CFR 35.100 and 35.200.	
Benjamin A. Tourkow, M.D.	10 CFR 35.100, 35.200, and 35.300 (limited to the oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries).	<b>;</b>
Vivek Sharma, M.D.	10 CFR 35.100 and 35.200.	1967 306
Mark A. Brinkman, M.D.	10 CFR 35.100, 35.200, and 35.300 (limited to the oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries).	<b>;</b>
Andrew J. Norton, M.D.	10 CFR 35.100 and 35.200.	
Mark C. Ranck, M.D.	10 CFR 35.400.	
Wesley A. Russell, M.D.	10 CFR 35.400.	
Indu Rekha Meesa, M.D.	10 CFR 35.100, 35.200, 35.300 (limited to the oral administration of sodium iodide I-131).	I

10 CFR 35.100, 35.200, and 35.300 (limited to the oral administration of sodium iodide I-131).

10 CFR 35.100 and 35.200.

13. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

Edward K. Yi, M.D.

Joel Heitman, M.D.

- 14. The manufacturer's training for TheraSpheres shall include operation of the delivery system, safety procedures, and clinical use of TheraSpheres.
- 15. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection program as provided for in 10 CFR 35.26. The U. S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - A. Application dated November 16, 2004;
  - B. Facsimiles dated May 10, 2005, and September 20, 2007; and,
  - C. Letters dated June 26, 2007, July 14, 2009, October 23, 2009, April 27, 2010, and September 2, 2010.

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

Date MAR 2 6 2015

Tove I Simmons

Materials Licensing Branch

Region III